

Rabbit Anti-Phospho-ITGB2 (Ser756)antibody

SL10461R

Product Name Phospho-ITGB2 (Ser756)

Chinese Name 磷酸化整合素 β 2 (CD18) 抗体

Alias Integrin beta-2; integrin subunit beta 2; LAD; CD18; MF17; MFI7; LCAMB; LFA-1; MAC-1; Cell surface adhesion glycoproteins LFA-1/CR3/p150,95 subunit beta; Complement receptor C3 subunit beta;

Product Type Phosphorylated anti

Research Area Tumour Cell biology Cell adhesion molecule Cell Surface Molecule

Immunogen Species Rabbit

Clonality Polyclonal

React Species Human, Rat, (predicted: Mouse, Chicken, Dog, Pig, Cow, Horse, Rabbit, Sheep, Guinea Pig,)

Applications IHC-P=1:100-500,IF=1:100-500 (Paraffin sections need antigen repair)
not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

Theoretical molecular weight 82kDa

Cellular localization The cell membrane

Form Liquid

Concentration 1mg/ml

immunogen KLH conjugated synthesised phosphopeptide derived from human CD18 around the phosphorylation site of Ser756: FK(p-S)AT

Lsotype IgG

Purification affinity purified by Protein A

Buffer Solution 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

Storage Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

Attention

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

PubMed

[PubMed](#)

This gene encodes an integrin beta chain, which combines with multiple different alpha chains to form different integrin heterodimers. Integrins are integral cell-surface proteins that participate in cell adhesion as well as cell-surface mediated signalling. The encoded protein plays an important role in immune response and defects in this gene cause leukocyte adhesion deficiency. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2014]

Function:

Integrin alpha-L/beta-2 is a receptor for ICAM1, ICAM2, ICAM3 and ICAM4. Integrins alpha-M/beta-2 and alpha-X/beta-2 are receptors for the iC3b fragment of the third complement component and for fibrinogen. Integrin alpha-X/beta-2 recognizes the sequence G-P-R in fibrinogen alpha-chain. Integrin alpha-M/beta-2 recognizes P1 and P2 peptides of fibrinogen gamma chain. Integrin alpha-M/beta-2 is also a receptor for factor X. Integrin alpha-D/beta-2 is a receptor for ICAM3 and VCAM1. Triggers neutrophil transmigration during lung injury through PTK2B/PYK2-mediated activation.

Subunit:

Heterodimer of an alpha and a beta subunit. Beta-2 associates with either alpha-L, alpha-M, alpha-X or alpha-D. Interacts with FGR (By similarity). Interacts with COPS5 and RANBP9.

Product Detail

Subcellular Location:

Membrane; Single-pass type I membrane protein.

Post-translational modifications:

Both Ser-745 and Ser-756 become phosphorylated when T-cells are exposed to phorbol esters. Phosphorylation on Thr-758 (but not on Ser-756) allows interaction with 14-3-3 proteins.

DISEASE:

Leukocyte adhesion deficiency 1 (LAD1) [MIM:116920]: LAD1 patients have recurrent bacterial infections and their leukocytes are deficient in a wide range of adhesion-dependent functions. Note=The disease is caused by mutations affecting the gene represented in this entry.

Similarity:

Belongs to the integrin beta chain family.
Contains 1 VWFA domain.

SWISS:
P05107

Gene ID:
3689

Database links:

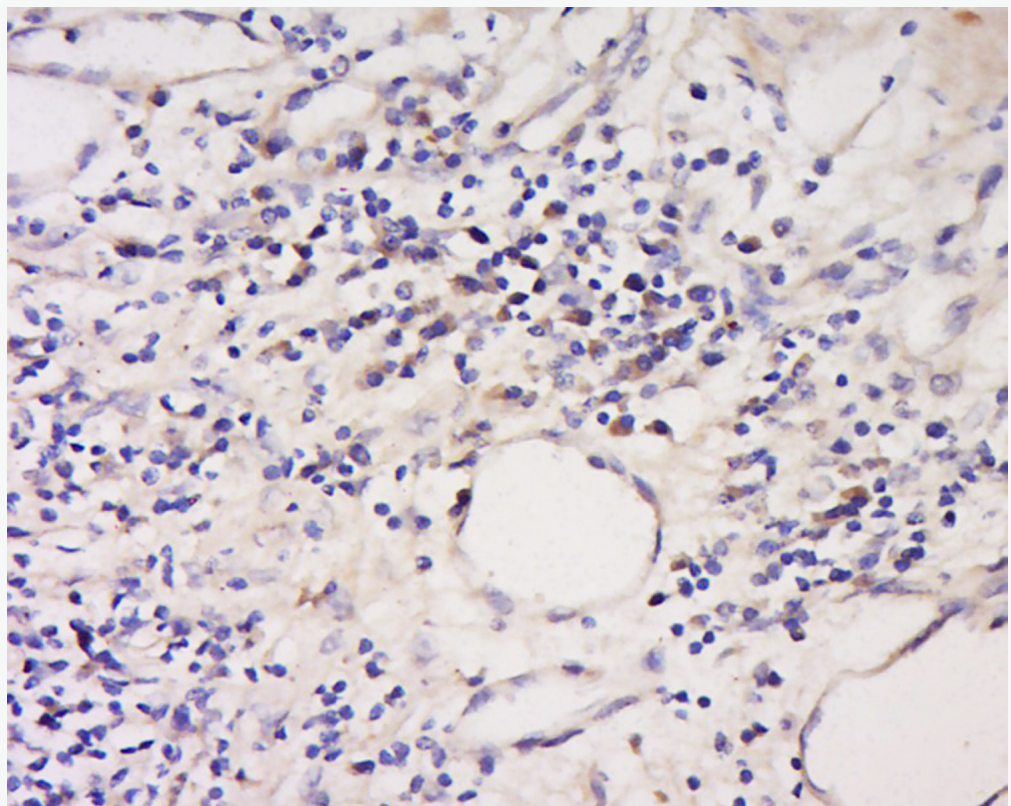
[Entrez Gene: 3689](#) Human

[Omim: 600065](#) Human

[SwissProt: P05107](#) Human

[Unigene: 375957](#) Human

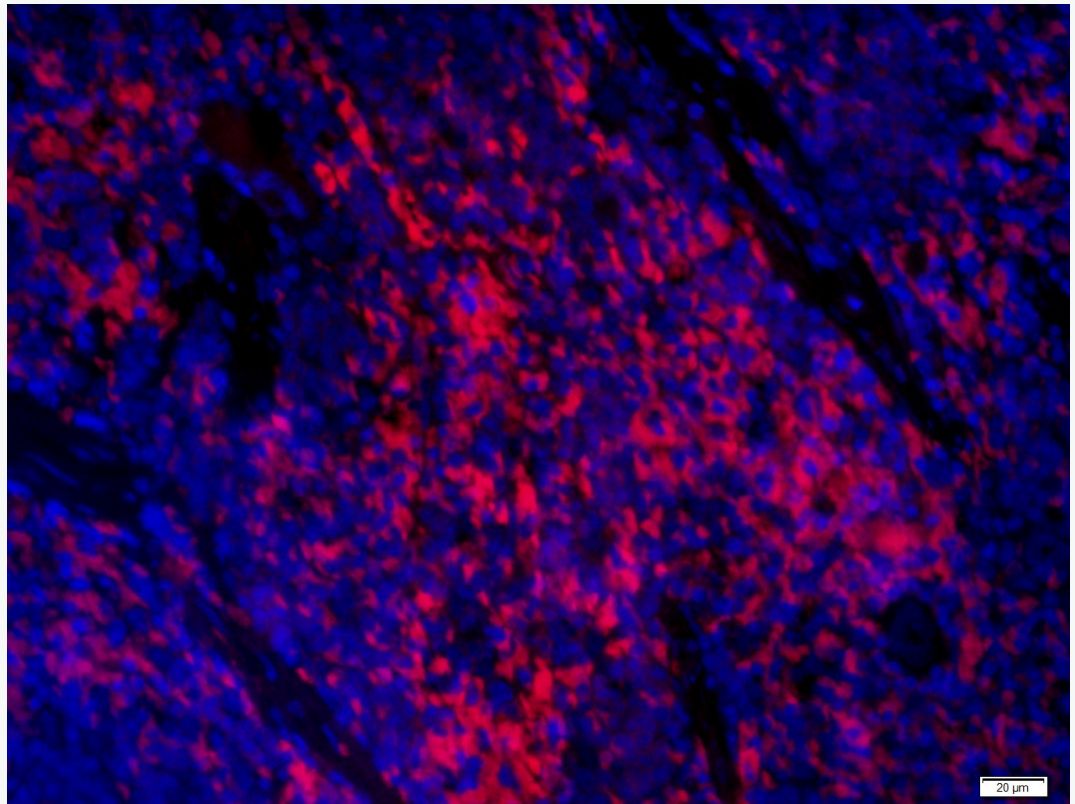
**Product
Picture**



Tissue/cell: human colon cancer; 4% Paraformaldehyde-fixed and paraffin-embedded;

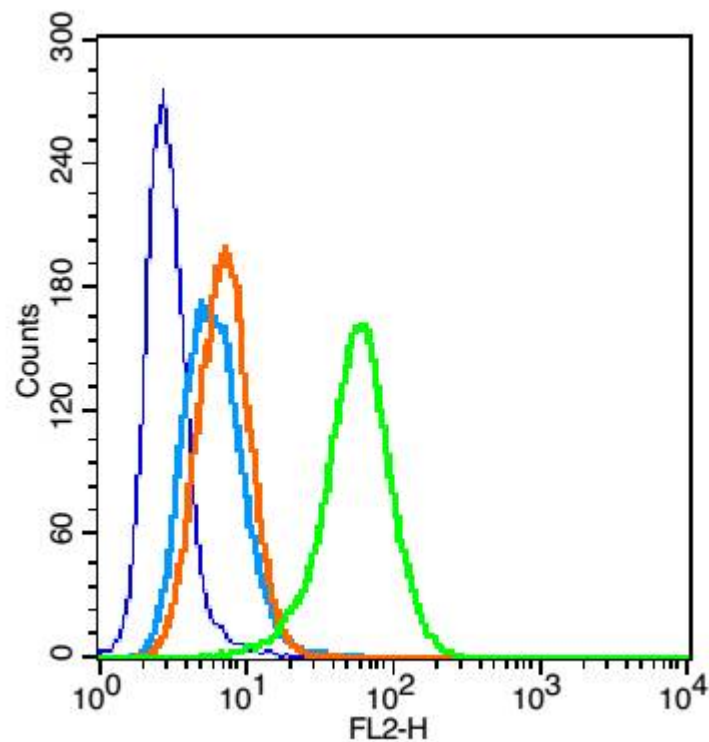
Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-phospho-CD18 Polyclonal Antibody, Unconjugated(SL10461R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Paraformaldehyde-fixed, paraffin embedded (rat spleen); Antigen retrieval by boiling in sodium citrate buffer (pH6) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at

37°C for 30min; Antibody incubation with (Phospho-CD18 (Ser756)) Polyclonal Antibody, Unconjugated (SL10461R) at 1:200 overnight at 4°C, followed by a conjugated secondary (SL0295G-Cy3) at [1:200] for 90 minutes and DAPI staining of the nuclei.



Blank control(blue): U937 (fixed with 2% paraformaldehyde (10 min)).

Primary Antibody:Rabbit Anti- Phospho-CD18 (Ser756) antibody(SL10461R),

Dilution: 0.2µg in 100 µL 1X PBS containing 0.5% BSA;

Isotype Control Antibody: Rabbit IgG(orange) ,used under the same conditions);

Secondary Antibody: Goat anti-rabbit IgG-PE(white blue), Dilution: 1:200 in 1 X



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PBS containing 0.5% BSA.